

**CLAIM LISTING**

This listing of claims will replace all prior versions and listings of the claims in the application:

1. (currently amended) A method for determining a type of an option spread based upon options received from an input device, the method comprising the steps of
  - (a) determining, by a computer, a first previous option count;
  - (b) receiving a first option from an input device, the first option comprising an optioncode, a contract, a strike, and a callput;
  - (c) assigning a quantity for the first option;
  - (d) determining, by said computer, a second previous option count;
  - (e) receiving a second option from an input device, the second option comprising an optioncode, a contract, a strike, and a callput;
  - (f) comparing, by said computer, the second option to the first option;
  - (g) assigning a quantity for at least one of the first option and the second option based upon the comparison of the second option to the first option; and[[,]]
  - (h) determining, by said computer, a type of option spread based upon at least one of the first and second option counts, the comparison of the second option to the first option, and the assigned quantities of the first and second options.
2. (currently amended) The method according to claim 1, further comprising the step of
  - (i) calculating, by said computer, a current\_valuation for the option spread.
3. (previously presented) The method according to claim 2, further comprising the step of

(j) naming the option spread.

4. (currently amended) The method according to claim 3, further comprising the step of

(k) calculating, by said computer, at least one of a delta, gamma, vega, theta, and an implied volatility of at least one of the first option, the second option, and the option spread;

wherein the delta indicates price sensitivity to changes in price of an underlying asset for the option;

wherein the gamma indicates delta sensitivity to changes in price of the underlying asset for the option;

wherein the vega indicates price sensitivity to changes in expected volatility;

wherein the theta indicates price sensitivity to changes in time until expiration of the option; and

wherein the implied volatility indicates a particular volatility derived from market price.

5. (previously presented) The method according to claim 4, wherein the delta, gamma, vega, theta, and implied volatility are calculated as at least one of an aggregate value and a subtotal by underlying asset.

6. (previously presented) The method according to claim 4, further comprising the step of

(l) sending at least one of the quantity, current valuation, name, delta, gamma, vega, theta, and implied volatility to a display device.

7. (previously presented) The method according to claim 1, further comprising the step of
  - (i) sending the optioncode, contract, strike, and callput of the first option to a display device.
8. (previously presented) The method according to claim 7 further comprising the step of
  - (j) displaying at least one of the quantity, name, current valuation, delta, gamma, vega, theta, and implied volatility on the display device.
9. (previously presented) The method according to claim 7 further comprising the step of:
  - (j) displaying the optioncode, contract, strike, and callput of the first option on the display device.
10. (previously presented) The method according to claim 1 wherein the input device is at least one of a mouse, a keyboard, a light emitting diode device, a touch screen, and a tracking ball.
11. (previously presented) The method according to claim 1 wherein the option spread is at least one selected from the group consisting of
  - a straddle, a ratio vertical put spread, a vertical put spread, a calendar put spread, a calendar vertical put spread, a ratio calendar put spread, a ratio vertical calendar put spread, a calendar fence/collar, a calendar ratio fence/collar, a calendar strangle, a fence/collar, a ratio fence/collar, a strangle, a conversion, a synthetic long futures, a

synthetic short futures, a ratio vertical call spread, a vertical call spread, a calendar call spread, a calendar vertical call spread, a ratio calendar call spread, and a ratio vertical calendar put spread.

12. (currently amended) A method for determining a type of option spread based upon a sequence of options received from an input device comprising the steps of
  - (a) determining, by a computer, a previous option count;
  - (b) receiving a sequence of options from an input device, each option comprising an optioncode, a contract, a strike, and a callput;
  - (c) comparing, by said computer, the optioncode, contract, strike, and callput of each option with the optioncode, contract, strike, and callput of each other option in the sequence;
  - (d) assigning a predetermined quantity to the option first received in the sequence of options;
  - (e) assigning a quantity for each option other than the option first received based upon the comparison of each option with respect to each other option and the quantity of each option with respect to each other option; and
  - (f) determining, by said computer, a type of option spread based upon the comparison of each option with each other option and the assigned quantity of each option.
13. (currently amended) The method according to claim 12 further comprising the step of
  - (g) calculating, by said computer, a current valuation of the option spread.

14. (currently amended) The method according to claim 13 further comprising the step of
- (h) naming the option spread.
15. (currently amended) The method according to claim 14 further comprising the step of
- (i) calculating, by said computer, at least one of a delta, gamma, vega, theta, and an implied volatility of at least one of said option in the sequence of options and in the option spread;
- wherein the delta indicates price sensitivity to changes in price of the underlying asset for the option;
- wherein the gamma indicates delta sensitivity to changes in price of an underlying asset for the option;
- wherein the vega indicates price sensitivity to changes in expected volatility;
- wherein the theta indicates price sensitivity to changes in time until expiration of the option; and,
- wherein the implied volatility indicates a particular volatility derived from market price.
16. (previously presented) The method according to claim 15 further comprising the step of
- (j) sending at least one of the quantity, current valuation, name, delta, gamma, vega, theta, and implied volatility to a display device.
17. (currently amended) The [[A]] method as in claim 16, further comprising the step of

(k) displaying at least one of the quantity, current valuation, name, delta, gamma, vega, theta, and implied volatility on the display device.

18. (previously presented) The method according to claim 12, wherein the input device is at least one selected from the group consisting of a mouse, keyboard, a light emitting diode device, a touch screen, and a tracking ball.

19. (previously presented) The method according to claim 12 wherein the option spread is at least one selected from the group consisting of

a straddle, a ratio vertical put spread, a vertical put spread, a calendar put spread, a calendar vertical put spread, a ratio calendar put spread, a ratio vertical calendar put spread, a calendar fence/collar, a calendar ratio fence/collar, a calendar strangle, a fence/collar, a ratio fence/collar, a strangle, a conversion, a synthetic long futures, a synthetic short futures, a ratio vertical call spread, a vertical call spread, a calendar call spread, a calendar vertical call spread, a ratio calendar call spread, a ratio vertical calendar put spread, a 3-way call spread versus a put, a 3-way put spread versus a call, a call tree, a put tree, a butterfly, an iron butterfly, and a straddle spread.

20. (currently amended) A method for determining a type of option spread based upon a sequence of user selections received from an input device, the method comprising the steps of

displaying a set of grids on a display device, each grid representing an optioncode and comprising a set of selectable options;

receiving a sequence of user selections chosen from the set of selectable options, each user selection comprising an optioncode, a contract, a strike, and a callput;

comparing, by a computer, the optioncode, contract, strike, and callput of each user selection with each other user selection in the sequence;

assigning a quantity for each user selection in the sequence of user selections received based upon the comparison of each user selection with each other user selection and the assigned quantity of each user selection; and

determining, by said computer, a type of option spread based upon a previous option count, the comparison of each user selection with each other user selection, and the assigned quantity of each user selection.

21. (previously presented) The method according to claim 20, wherein each grid comprises an x-axis and a y-axis, and wherein the x-axis comprises a set of contract and callput selections, and the y-axis comprises a set of strike selections, or vice versa.
22. (previously presented) The method according to claim 20, wherein the comparing step occurs prior to at least one of a predefined time out and a receipt of a clear instruction.
23. (currently amended) A method for determining a type of option spread based upon a sequence of user selections received from an input device, the method comprising the steps of  

displaying a set of grids on a display device, each grid representing a single optioncode and comprising a set of selectable boxes;

receiving a selection of a sequence of boxes, each selection in the sequence comprising optioncode, a contract, a strike, and a callput; and

determining, by a computer, for the selected sequence, a type of option spread, an option spread name, an option spread valuation, and a quantity for the option spread.

24. (previously presented) The method according to claim 23, further comprising the step of assigning a quantity, inclusive of at least one of a positive and negative sign, for each user selection in the sequence.

25. (currently amended) The method according to claim 24, further comprising the step of calculating, by said computer, at least one of a delta, gamma, vega, theta, and implied volatility of at least one of said selection in the sequence and the option spread;

wherein the delta indicates price sensitivity to changes in price of an underlying asset for the option;

wherein the gamma indicates delta sensitivity to changes in price of an underlying asset for the option;

wherein the vega indicates price sensitivity to changes in expected volatility;

wherein the theta indicates price sensitivity to changes in time until expiration of the option; and,

wherein the implied volatility indicates a particular volatility derived from market price.



26. (previously presented) The method according to claim 23, wherein each grid comprises an x-axis and a y-axis, the x-axis comprises a set of contract and the callput selections, and the y-axis comprises a set of strike selections, or vice versa.
27. (previously presented) The method according to claim 23, further comprising the step of saving the provided option spread to a watch list for an update on the current valuation of the option spread.
28. (previously presented) The method according to claim 23, further comprising the steps of instructing a sign change of the provided option spread that reverses the sign of the provided quantity for at least one user selection in the sequence; and, receiving, based upon the sign change instruction, a type of option spread, a corresponding option spread name and option spread valuation
29. (previously presented) The method according to claim 25, further comprising the step of instructing a sign change of the provided option spread that reverses the sign of the provided quantity for at least one user selection in the sequence; and, receiving a recalculated at least one of a delta, gamma, vega, theta, and implied volatility.
30. (currently amended) The method according to claim 25, further comprising the steps of instructing a sign change of a second selection in the sequence that reverses the sign of the provided quantity for each user selection in the sequence;

recalculating, by said computer, at least one of a delta, gamma, vega, theta, and implied implied volatility, and,

receiving the at least one of a delta, gamma, vega, theta, and implied volatility from the recalculating step.

31. (previously presented) The method according to claim 23, further comprising the step of adding a hedge with a user specified valuation; and receiving a recalculated option spread price in accordance with the added hedge.
32. (previously presented) The method according to claim 23, further comprising the step of adding a hedge with a market specified valuation; and receiving a recalculated option spread price in accordance with the added hedge.
33. (cancelled)
34. (cancelled)
35. (cancelled)
36. (currently amended) A computer readable medium containing computer readable instructions that when executed by a computer comprising a program for determining determine a type of an option spread based upon options received from an input device, the ~~program~~ computer readable instructions comprising:

- (a) ~~program code~~ instructions for determining a first previous option count;
- (b) ~~program code~~ instructions for receiving from an input device a first option, the first option comprising an optioncode, a contract, a strike, and a callput;
- (c) ~~program code~~ instructions for assigning a quantity for the first option;
- (d) ~~program code~~ instructions for determining a second previous option count;
- (e) ~~program code~~ instructions for receiving from an input device a second option ~~free of buy/sell indicators~~, the second option comprising an optioncode, a contract, a strike, and a callput;
- (f) ~~program code~~ instructions for comparing the second option to the first option;
- (g) ~~program code~~ instructions for assigning a quantity for at least one of the first option and the second option based upon the comparison of the second option to the first option; and
- (h) ~~program code~~ instructions for determining a type of option spread based upon at least one of the first and second option counts, the comparison of the second option to the first option, and the assigned quantities of the first and second options.

37. (currently amended) The computer readable medium according to claim 36, wherein the computer readable instructions further comprise:~~the program further comprises~~

- (i) ~~program code~~ instructions for calculating a current valuation for the option spread.

38. (currently amended) The computer readable medium according to claim 37, wherein the ~~program~~ the computer readable instructions further comprise: s

(j) ~~program code~~instructions for naming the option spread.

39. (currently amended) The computer readable medium according to claim 38, wherein the ~~program~~ the computer readable instructions further comprises

(k) ~~program code~~instructions for calculating at least one of a delta, gamma, vega, theta, and an implied volatility of at least one of the first option, the second option, and the option spread;

wherein the delta indicates price sensitivity to changes in price of an underlying asset for the option;

wherein the gamma indicates delta sensitivity to changes in price of the underlying asset for the option;

wherein the vega indicates price sensitivity to changes in expected volatility;

wherein the theta indicates price sensitivity to changes in time until expiration of the option; and,

wherein the implied volatility indicates a particular volatility derived from market price.

40. (previously presented) The computer readable medium according to claim 39, wherein the delta, gamma, vega, theta, and implied volatility are calculated as at least one of an aggregate value and a subtotal by underlying asset.

41. (currently amended) The computer readable medium according to claim 38, wherein the the computer readable instructions ~~program~~ further comprise:s

- (k) ~~program-code~~ instructions for sending at least one of the quantity, current valuation, name, delta, gamma, vega, theta, and implied volatility to a display device.
42. (currently amended) The computer readable medium according to claim 36, wherein the ~~program~~ the computer readable instructions further comprises ~~program-code~~ instructions for sending the optioncode, contract, strike, and callput of the first option to a display device.
43. (currently amended) The computer readable medium according to claim 42, wherein the ~~program~~ the computer readable instructions further comprise:s
- (i) ~~program-code~~ instructions for displaying at least one of the quantity, name, current valuation, delta, gamma, vega, theta, and implied volatility on the display device.
44. (currently amended) The computer readable medium according to claim 42, wherein the ~~program~~ the computer readable instructions further comprise:s
- ~~program-code~~instructions for displaying the optioncode, contract, strike, and callput of the first option on the display device.
45. (previously presented) The computer readable medium according to claim 36, wherein the input device is at least one selected from the group consisting of a mouse, a keyboard, a light emitting diode device, a touch screen, and a tracking ball.

46. (previously presented) The computer readable medium according to claim 36, wherein the option spread is at least one selected from the group consisting of

a straddle, a ratio vertical put spread, a vertical put spread, a calendar put spread, a calendar vertical put spread, a ratio calendar put spread, a ratio vertical calendar put spread, a calendar fence/collar, a calendar ratio fence/collar, a calendar strangle, a fence/collar, a ratio fence/collar, a strangle, a conversion, a synthetic long futures, a synthetic short futures, a ratio vertical call spread, a vertical call spread, a calendar call spread, a calendar vertical call spread, a ratio calendar call spread, and a ratio vertical calendar put spread.

47. (currently amended) A computer readable medium containing computer readable instructions that when executed by a computer comprising a program for determining determine a type of an option spread based upon options received from an input device, the program computer readable instructions comprising

- (a) program-code instructions for determining a previous option count;
- (b) program-code instructions for receiving a sequence of options from an input device, each option comprising an optioncode, a contract, a strike, and a callput;
- (c) program-code instructions for comparing the optioncode, contract, strike, and callput of each option with the optioncode, contract, strike, and callput of each other option in the sequence;
- (e) program-code instructions for assigning a quantity for at least one option in the sequence of options based upon the comparison of each option with respect to each other option and the quantity of each option with respect to each other option; and

- (f) ~~program code~~ instructions for determining a type of option spread based upon the previous option count, comparison of each option with each other option and the assigned quantity of each option.
48. (currently amended) The computer readable medium according to claim 47, wherein the ~~program~~ computer readable instructions further comprise: s
- (f) ~~program code~~ instructions for calculating a current valuation of the option spread.
49. (currently amended) The computer readable medium according to claim 48, wherein the ~~program~~ computer readable instructions further comprise: s
- (g) ~~program code~~ instructions for naming the option spread.
50. (currently amended) The computer readable medium according to claim 49, wherein the ~~program~~ computer readable instructions further comprise: s
- (h) ~~program code~~ instructions for calculating at least one of a delta, gamma, vega, theta, and an implied volatility of at least one of said option in the sequence of options and in the option spread;
- wherein the delta indicates price sensitivity to changes in price of the underlying asset for the option;
- wherein the gamma indicates delta sensitivity to changes in price of an underlying asset for the option;
- wherein the vega indicates price sensitivity to changes in expected volatility;

wherein the theta indicates price sensitivity to changes in time until expiration of the option; and,

wherein the implied volatility indicates a particular volatility derived from market price.

51. (currently amended) The computer readable medium according to claim 50, wherein the ~~program~~ computer readable instructions further comprise: s

(i) ~~program-code~~ instructions for sending at least one of the quantity, valuation, name, delta, gamma, vega, theta, and implied volatility to a display device.

52. (currently amended) The computer readable medium according to claim 51, wherein the ~~program~~ computer readable instructions further comprise: s

(j) ~~program-code~~ instructions for displaying at least one of the quantity, valuation, name, delta, gamma, vega, theta, and implied volatility on the display device.

53. (currently amended) The computer readable medium according to claim 47, wherein the input device from which said ~~program~~ computer readable instructions further comprises ~~wherein the input device~~ receive a sequence of options is at least one selected from the group consisting of a mouse, keyboard, a light emitting diode device, a touch screen, and a tracking ball.

54. (previously presented) The computer readable medium according to claim 53, wherein the option spread is at least one selected from the group consisting of



a straddle, a ratio vertical put spread, a vertical put spread, a calendar put spread, a calendar vertical put spread, a ratio calendar put spread, a ratio vertical calendar put spread, a calendar fence/collar, a calendar ratio fence/collar, a calendar strangle, a fence/collar, a ratio fence/collar, a strangle, a conversion, a synthetic long futures, a synthetic short futures, a ratio vertical call spread, a vertical call spread, a calendar call spread, a calendar vertical call spread, a ratio calendar call spread, a ratio vertical calendar put spread, a 3-way call spread versus a put, a 3-way put spread versus a call, a call tree, a put tree, a butterfly, an iron butterfly, and a straddle spread.

55. (currently amended) A computer readable medium containing computer readable instructions that when executed by a computer comprising a program for determining determine a type of option spread based upon a sequence of user selections received from an input device, the ~~program~~ computer readable instructions comprising:

~~program code~~ instructions for displaying a set of grids on a display device, each grid representing an optioncode and comprising a set of selectable options;

~~program code~~ instructions for receiving a sequence of user selections chosen from the set of selectable options, each user selection comprising an optioncode, a contract, a strike, and a callput;

~~program code~~ instructions for comparing the optioncode, contract, strike, and callput of each user selection with each other user selection in the sequence;

~~program code~~ instructions for assigning a quantity for each user selection in the sequence of user selections based upon the comparison of each user selection with each other user selection and the assigned quantity of each user selection; and

instructions for determining a type of option spread based upon a previous option count, the comparison of each user selection with each other user selection, and the assigned quantity of each user selection.

~~the comparison of each user selection with each other user selection and the assigned quantity of each user selection.~~

56. (previously presented) The computer readable medium according to claim 55, wherein each grid comprises an x-axis and a y-axis, and wherein the x-axis comprises a set of contract and callput selections, and the y-axis comprises a set of strike selections, or vice versa.
57. (previously presented) The computer readable medium according to claim 55, wherein the comparing step occurs prior to at least one of a predefined time out and a receipt of a clear instruction.
58. (currently amended) A computer readable medium containing computer readable instructions that when executed by a computer ~~comprising a program for determining~~ determine a type of option spread based upon a sequence of user selections received from an input device, the ~~program~~ computer readable instructions comprising
- ~~program code~~ instructions for displaying a set of grids on a display device, each grid representing a single optioncode and comprising a set of selectable boxes;
- ~~program code~~ instructions for receiving a selection of a sequence of boxes, each selection in the sequence comprising optioncode, a contract, a strike, and a callput; and

~~program code~~ instructions for determining, for the selected sequence, a type of option spread, an option spread name, an option spread valuation, and a quantity for the option spread.

59. (currently amended) The computer readable medium according to claim 58, further comprising ~~program code~~ computer readable instructions for assigning a quantity, inclusive of at least one of a positive and negative sign, for each user selection in the sequence.

60. (currently amended) The computer readable medium according to claim 59, further comprising

~~program code~~ computer readable instructions for calculating at least one of a delta, gamma, vega, theta, and implied volatility of at least one of said selection in the sequence and the option spread;

wherein the delta indicates price sensitivity to changes in price of an underlying asset for the option;

wherein the gamma indicates delta sensitivity to changes in price of an underlying asset for the option;

wherein the vega indicates price sensitivity to changes in expected volatility;

wherein the theta indicates price sensitivity to changes in time until expiration of the option; and,

wherein the implied volatility indicates a particular volatility derived from market price.

61. (previously presented) The computer readable medium according to claim 58, wherein each grid comprises an x-axis and a y-axis, and wherein the x-axis comprises a set of contract and the callput selections, and the y-axis comprises a set of strike selections, or vice versa.
62. (currently amended) The computer readable medium according to claim 58, further comprising  
~~program-code~~ computer readable instructions for saving the provided option spread to a watch list for an update on the valuation of the option spread.
63. (currently amended) The computer readable medium according to claim 58, further comprising  
~~program-code~~ computer readable instructions for instructing a sign change of the provided option spread that reverses the sign of the provided quantity for at least one user selection in the sequence; and,  
~~program-code~~ computer readable instructions for receiving, based upon the sign change instruction, a type of option spread, a corresponding option spread name and option spread valuation
64. (currently amended) The computer readable medium according to claim 60, further comprising

~~program-code~~ computer readable instructions for instructing a sign change of the provided option spread that reverses the sign of the -provided quantity for at least one user selection in the sequence; and,

~~program-code~~ computer readable instructions for receiving a recalculated at least one of a delta, gamma, vega, theta, and implied volatility.

65. (currently amended) The computer readable medium according to claim 60, further comprising

~~program-code~~ computer readable instructions for instructing a sign change of a second selection in the sequence that reverses the sign of the provided quantity for each user selection in the sequence;

~~program-code~~ computer readable instructions for recalculating at least one of a delta, gamma, vega, theta, and implied implied volatility, and

~~program-code~~ computer readable instructions for receiving the at least one of a delta, gamma, vega, theta, and implied volatility from the recalculating step.

66. (currently amended) The computer readable medium according to claim 58, further comprising

~~program-code~~ computer readable instructions for adding a hedge with a user specified valuation; and receiving a recalculated option spread price in accordance with the added hedge.

67. (currently amended) The computer readable medium according to claim 58, further comprising
- ~~program-code~~ computer readable instructions for adding a hedge with a market specified valuation; and
- ~~program-code~~ computer readable instructions for receiving a recalculated option spread price in accordance with the added hedge.
68. (currently amended) A computer system for determining a type of option spread, the computer system comprising
- a processor, and
- a computer readable medium according to any one of claims 36, 47, 55, or 58, wherein said computer readable medium stores computer readable instructions,
- wherein the processor is configured to execute ~~program-code~~ said computer readable instructions stored on said computer readable medium.